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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/982,234	10/19/2001	Daigo Kaneko	381NP/50449	7613

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EXAMINER

FLETCHER, MARLON T

ART UNIT	PAPER NUMBER
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2837

DATE MAILED: 09/12/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/982,234

Applicant(s)

KANEKO ET AL.

Examiner

Marlon T Fletcher

Art Unit

2837

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 June 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2,4,8-13 and 15-22 is/are rejected.
- 7) ☒ Claim(s) 3,5-7 and 14 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s) _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1, 2, 4, 8, 9, and 10-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sakamoto et al. (6,396,229) in view of Tauchi et al. (6,328,136)

As recited in claims 1, 8, 11, 17, and 18, Sakamoto et al. disclose a method of controlling and controller driven by a synchronous motor comprising: a rotor position estimator which estimates a magnetic pole position of a rotor (column 6, lines 51-54) of said synchronous motor based on electrical quantities in relation to electric power supplied to the synchronous motor as discussed in column 16, lines 11-61.

As recited in claims 2 and 11, Sakamoto et al. disclose a controller, further comprising motor speed control (62) which controls the speed of said synchronous motor based on the position command as discussed in column 18, line 55 through column 19, line 13, wherein speed control is provided. Sakamoto et al. disclose a controller, further comprising a motor speed command generator which controls the speed of said synchronous motor based on the position command as discussed in the abstract and column 16, lines 49-61

As recited in claims 4, 9, and 12, Sakamoto et al. disclose a controller, further comprising position information correcting means (7) which corrects the position of said the rotor which in

turn controls the load based absolute position information of the load as discussed column 20, lines 5-32.

Although it may be inherent that the motor would control some load, Sakamoto et al. do not disclose controlling a mobile body via a mobile body position estimator.

However, as recited in claim 1, Tauchi et al. disclose a mobile body position estimator which estimates the position of a mobile body based on the magnetic pole position estimated by said rotor position estimator as discussed in column 4, line 66 through column 5, line 7; and column 11, line 29 through column 12, line 42).

As recited in claims 9, 10, 12, 13, 15, and 16, Tauchi et al. disclose a method of controlling a mobile body, comprising the further step of: correcting the position of said mobile body estimated, based on absolute position information of said mobile body estimated by said mobile body position estimator based on absolute position information of said mobile body as discussed in column 11, line 56 through column 12, line 18, wherein the mobile body position corresponds directly to the rotor position.

With respect to claims 19-22, Tauchi et al. disclose that the mobile body is an elevator, wherein position is generated about the mobile body (column 10, lines 29-45; and column 11, line 29 through column 12, line 18).

It would have been obvious to one of ordinary skill in the art at the time of the invention to utilize the teachings of Tauchi et al. with Sakamoto et al., because Tauchi et al. provide a control system, wherein the load being controlled is a mobile body (elevator), wherein it could be understood that Sakamoto et al. provide subject matter for controlling a load.

Allowable Subject Matter


3. Claims 3, 5-7, and 14 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

The prior art fails to provide the system claimed, wherein the system further provides a display of the mobile body position.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marlon T Fletcher whose telephone number is 703-308-0848. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Nappi can be reached on 703-308-3370. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.


Marlon T Fletcher
Primary Examiner
Art Unit 2837

MTF
September 7, 2003